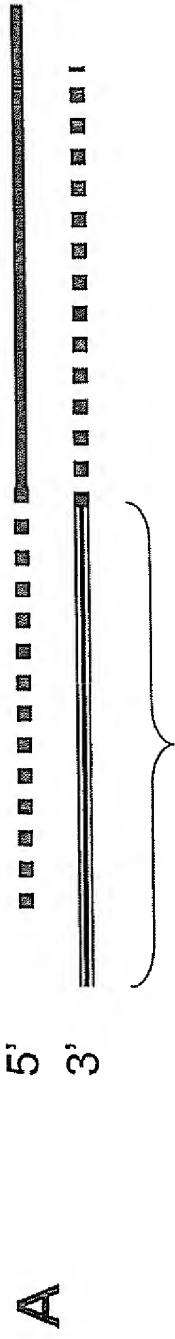


Figure 1: Examples of double stranded multifunctional siNA constructs with distinct complementary regions

Complementary Region 1



Complementary Region 2

Complementary Region 1



Figure 2: Examples of hairpin multifunctional siNA constructs with distinct complementary regions

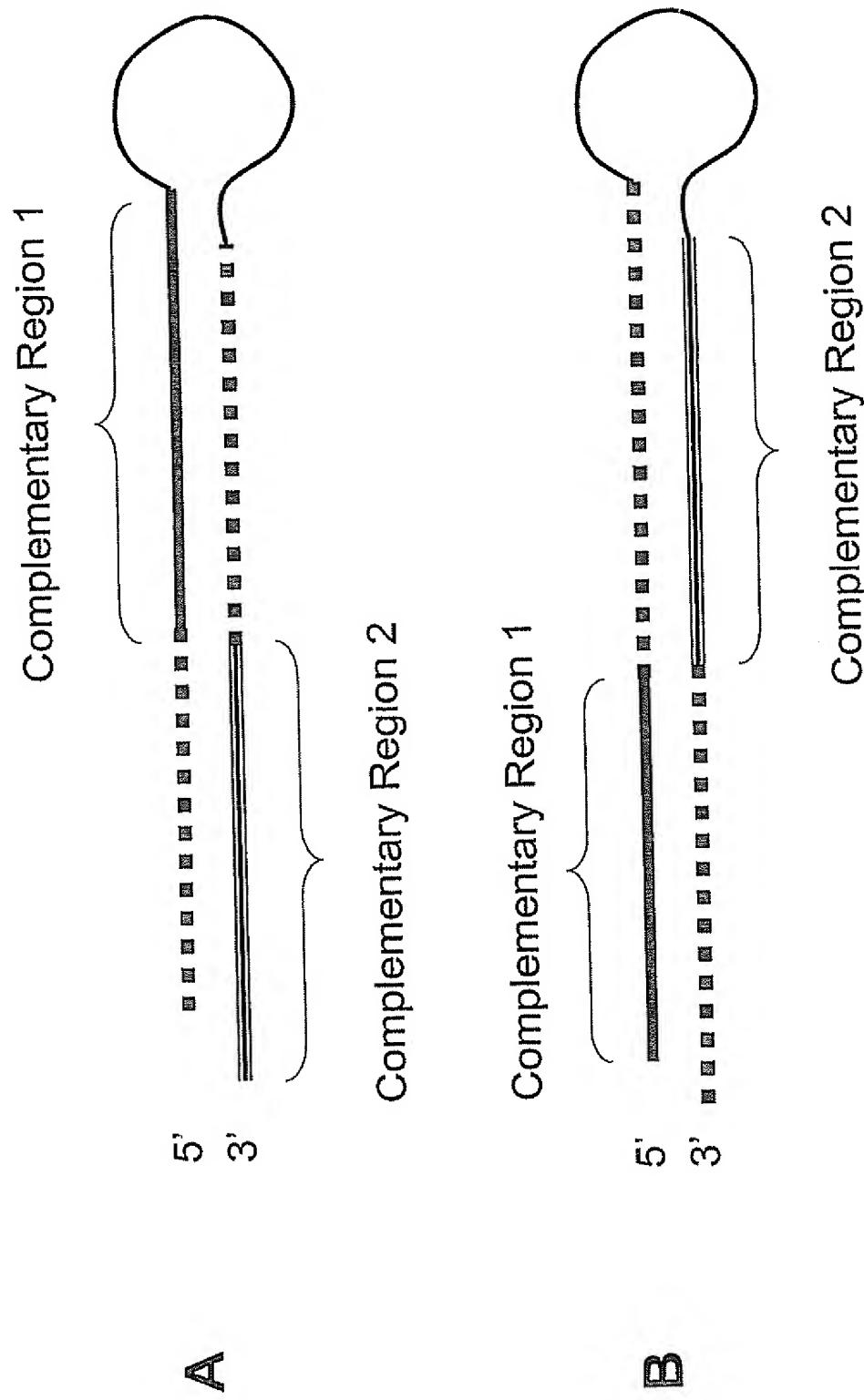


Figure 3: Examples of double stranded multifunctional siNA constructs with distinct complementary regions and a self complementary/palindrome region

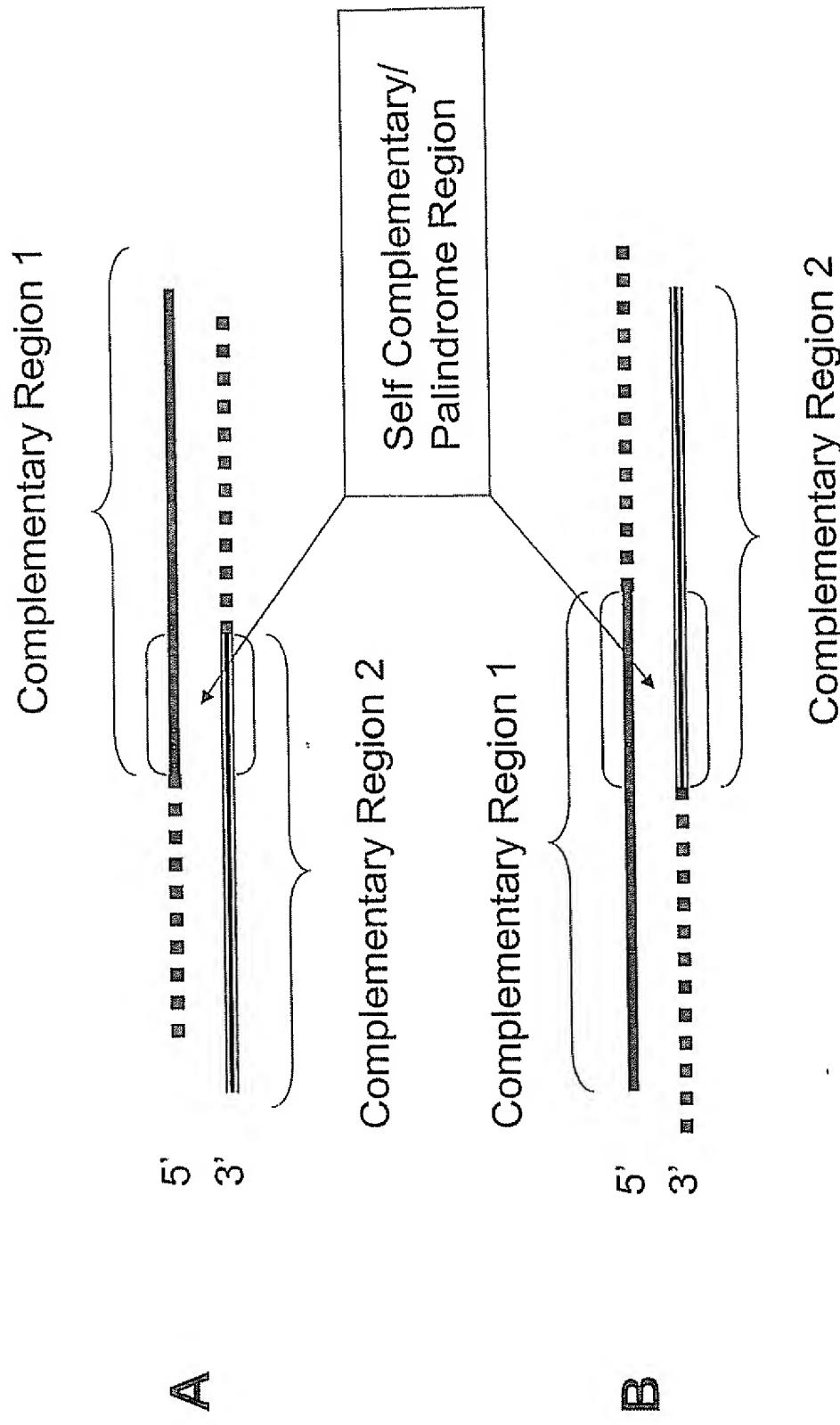


Figure 4: Examples of hairpin multifunctional siNA constructs with distinct complementary regions and a self complementary/palindrome region

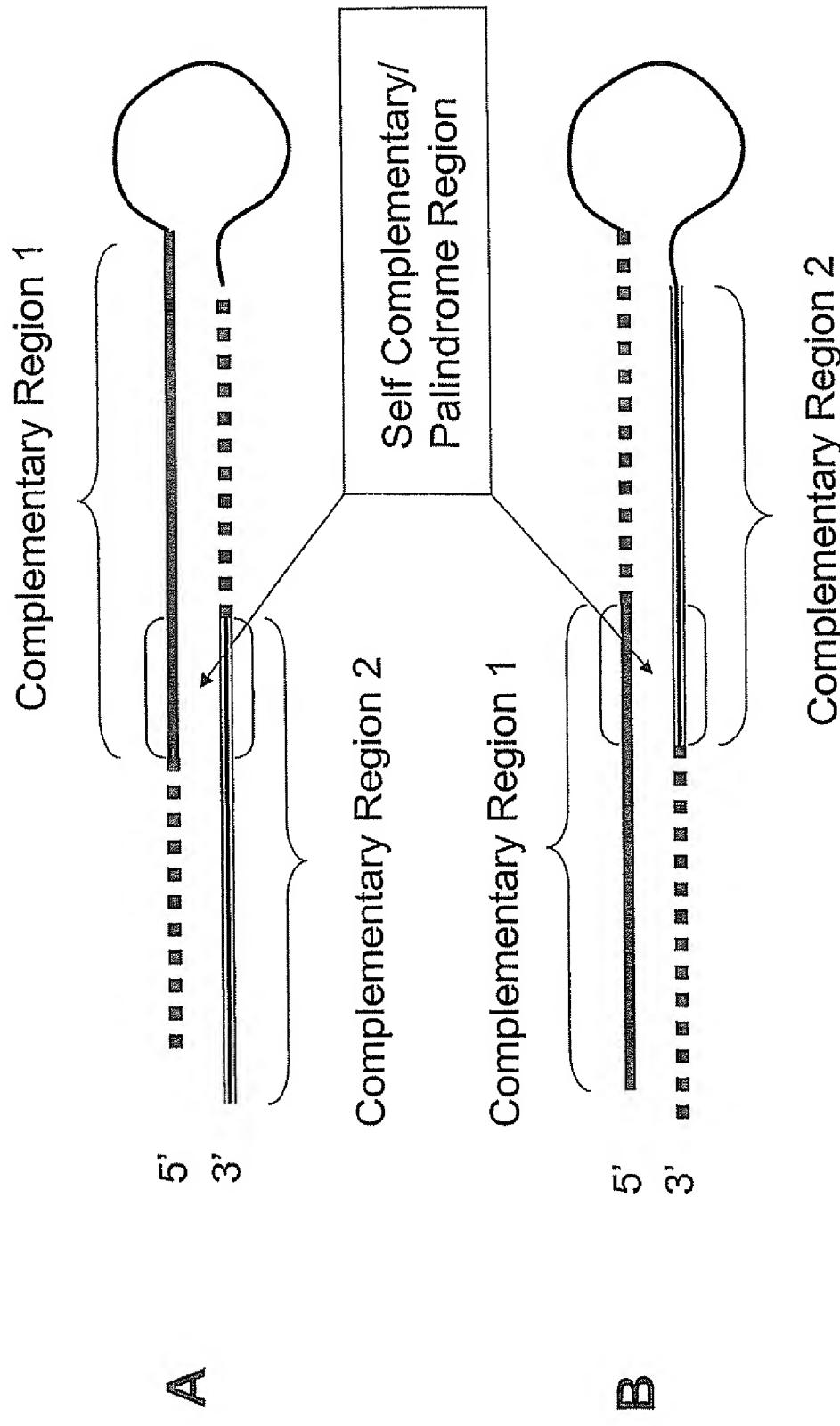


Figure 5: Example of multifunctional siRNA targeting two separate Target nucleic acid sequences

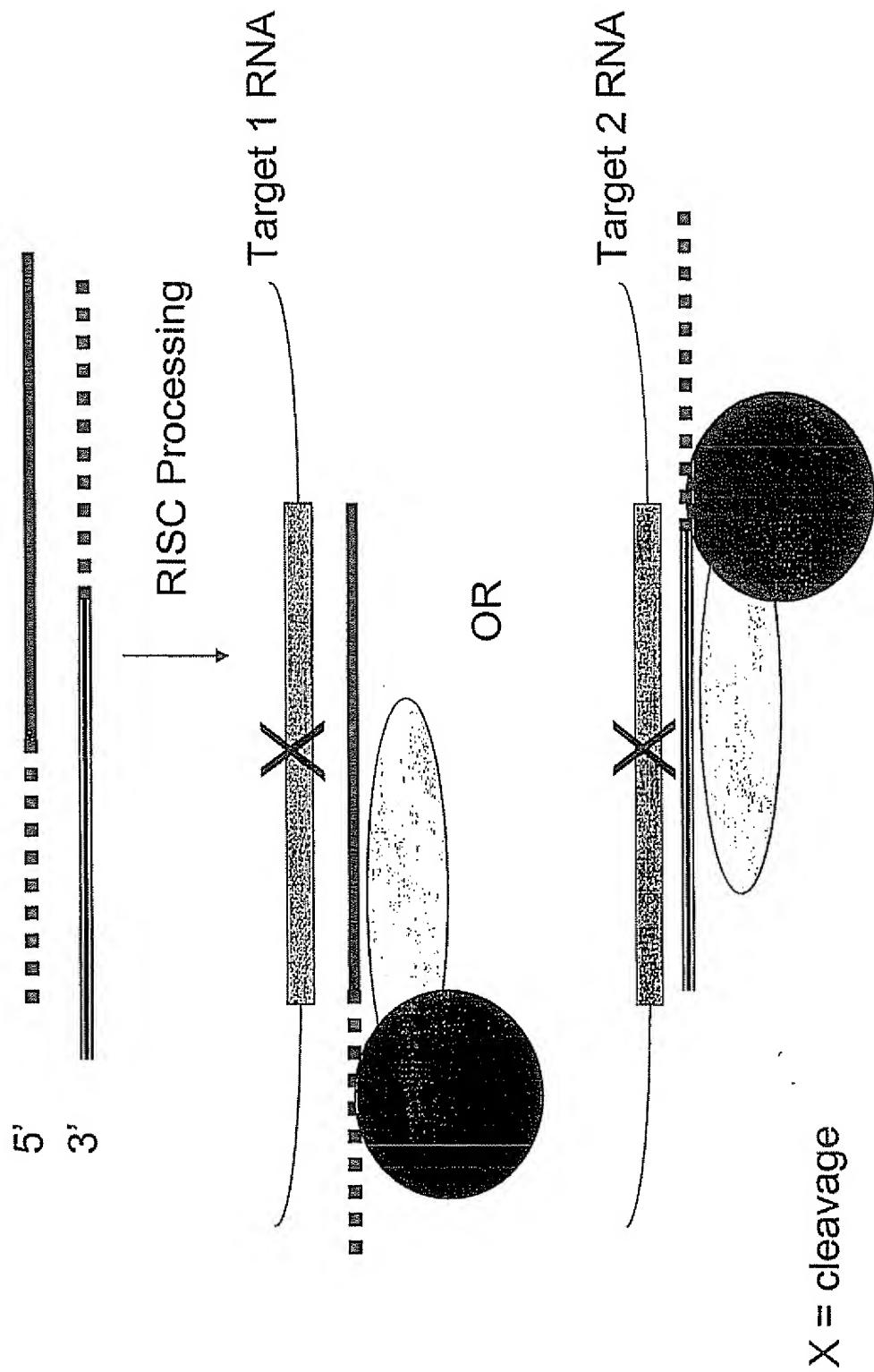
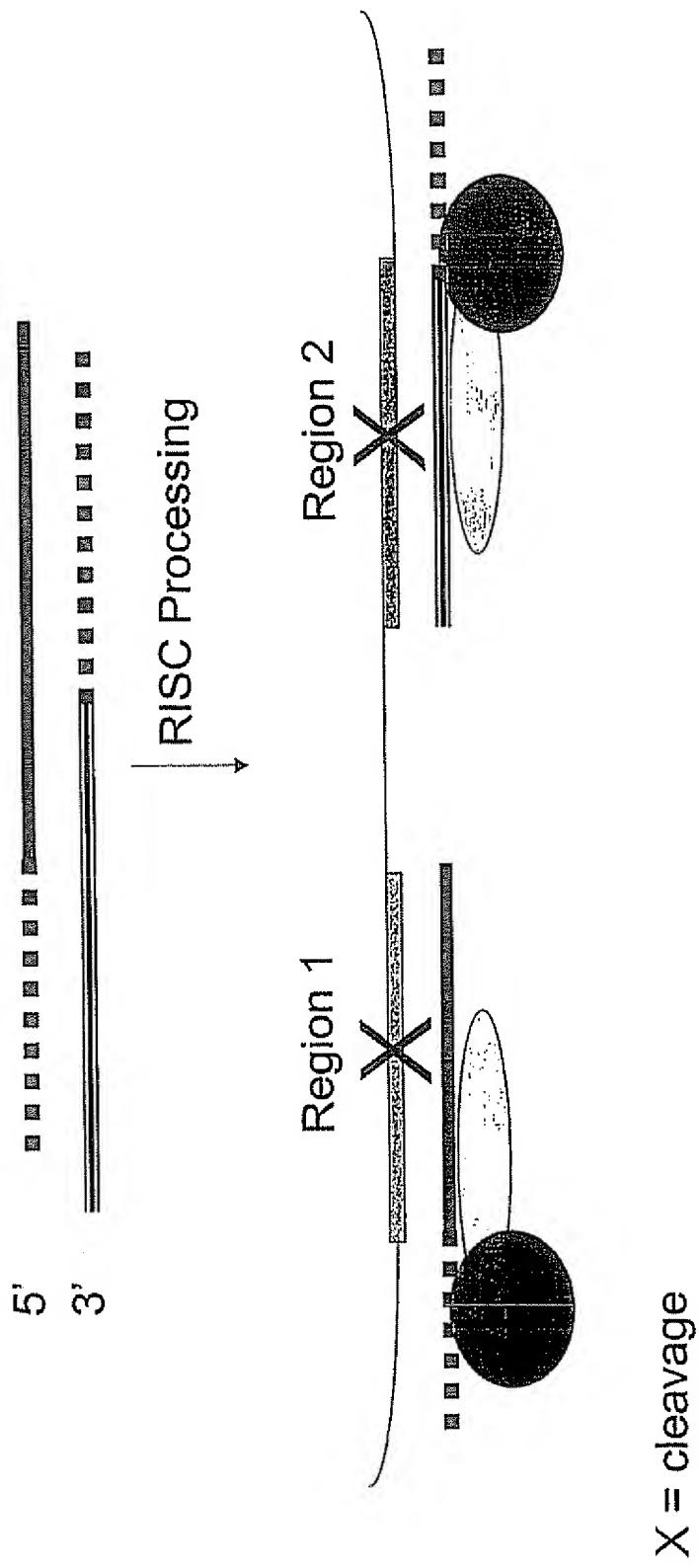


Figure 6: Example of multifunctional siNA targeting two regions within the same target nucleic acid sequence



X = cleavage

Figure 7: Examples of artificial complementary/palindromic sites generated using Modified nucleotides

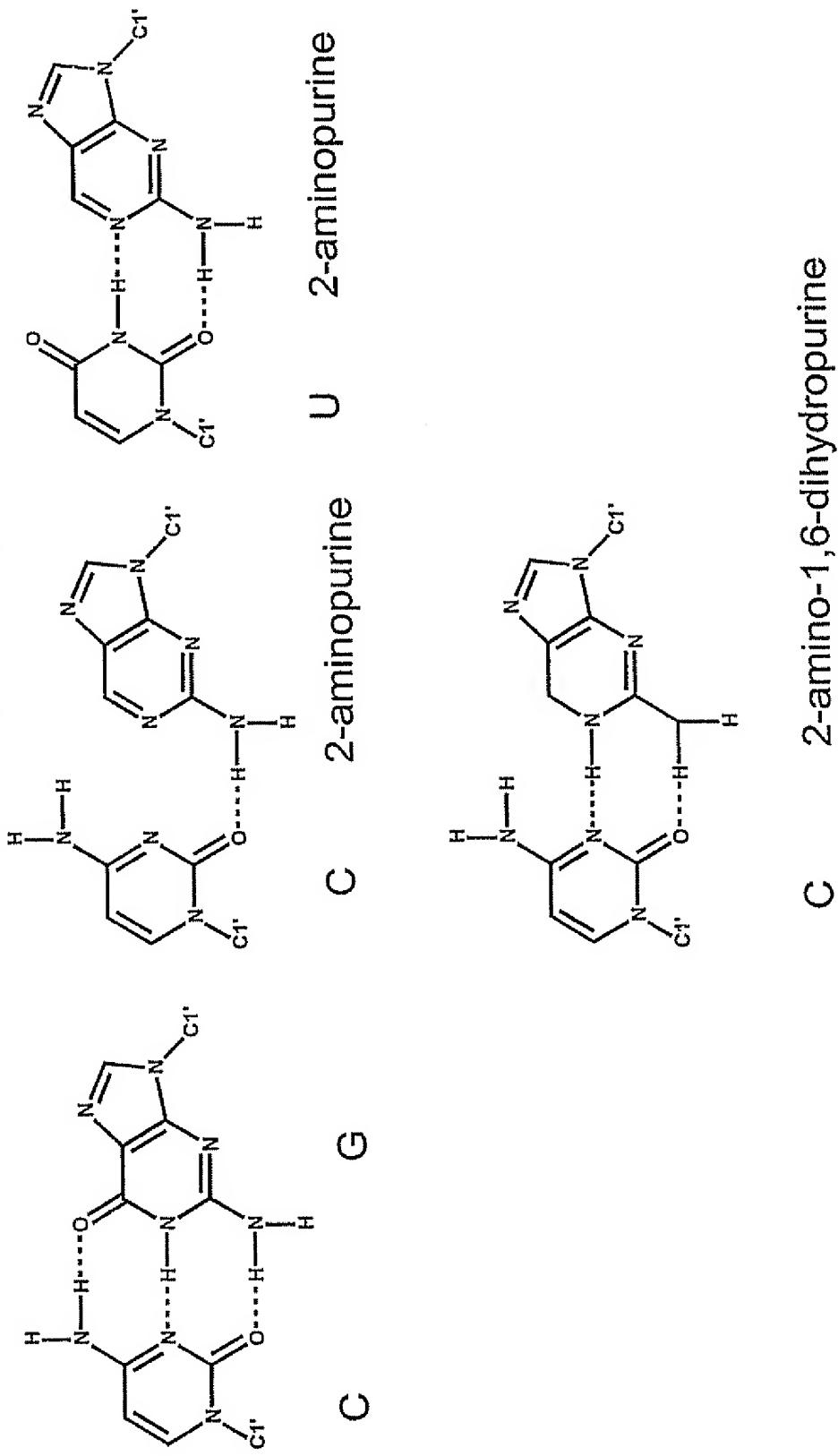


Figure 8: Example of Proposed Mechanism of RNAi

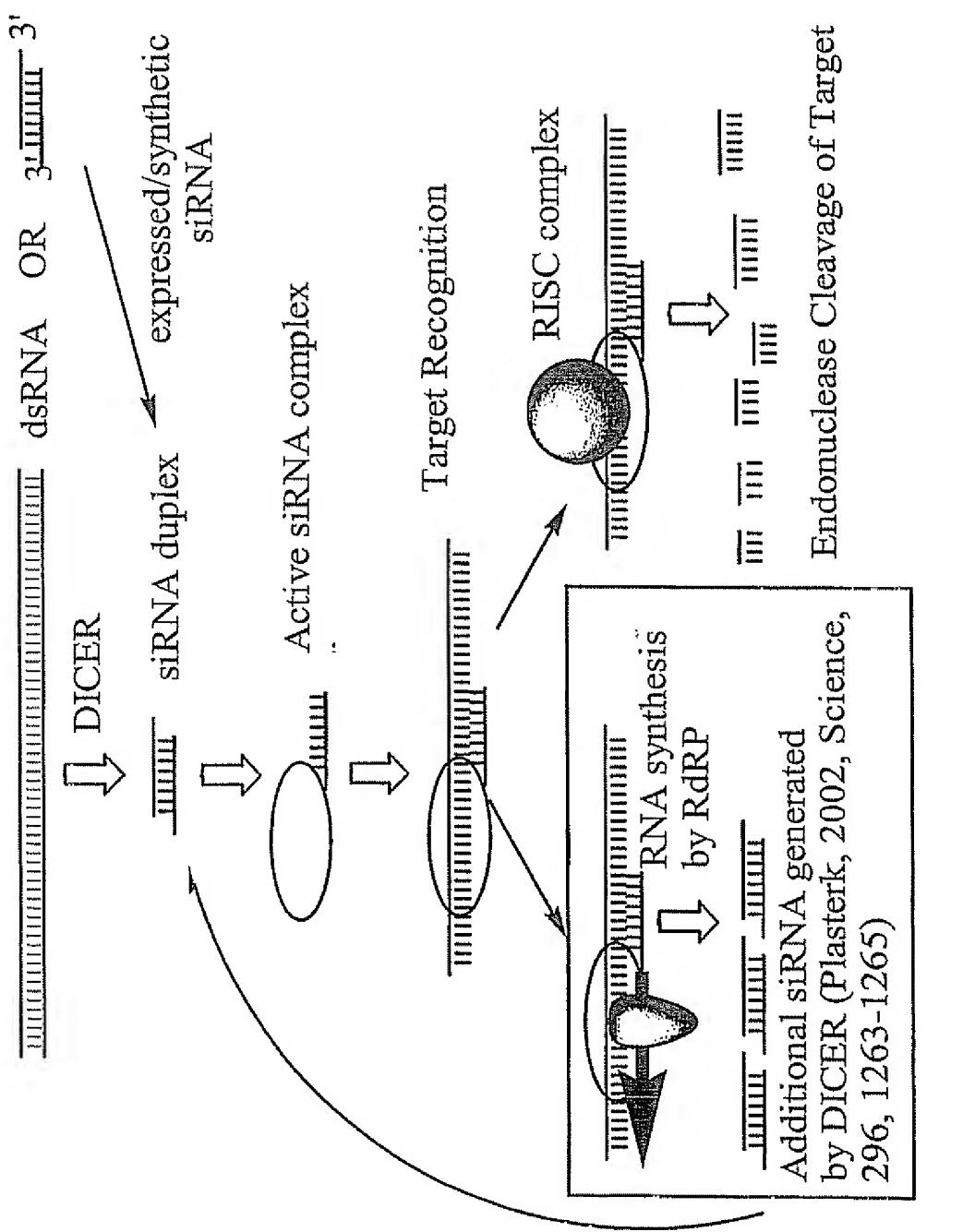
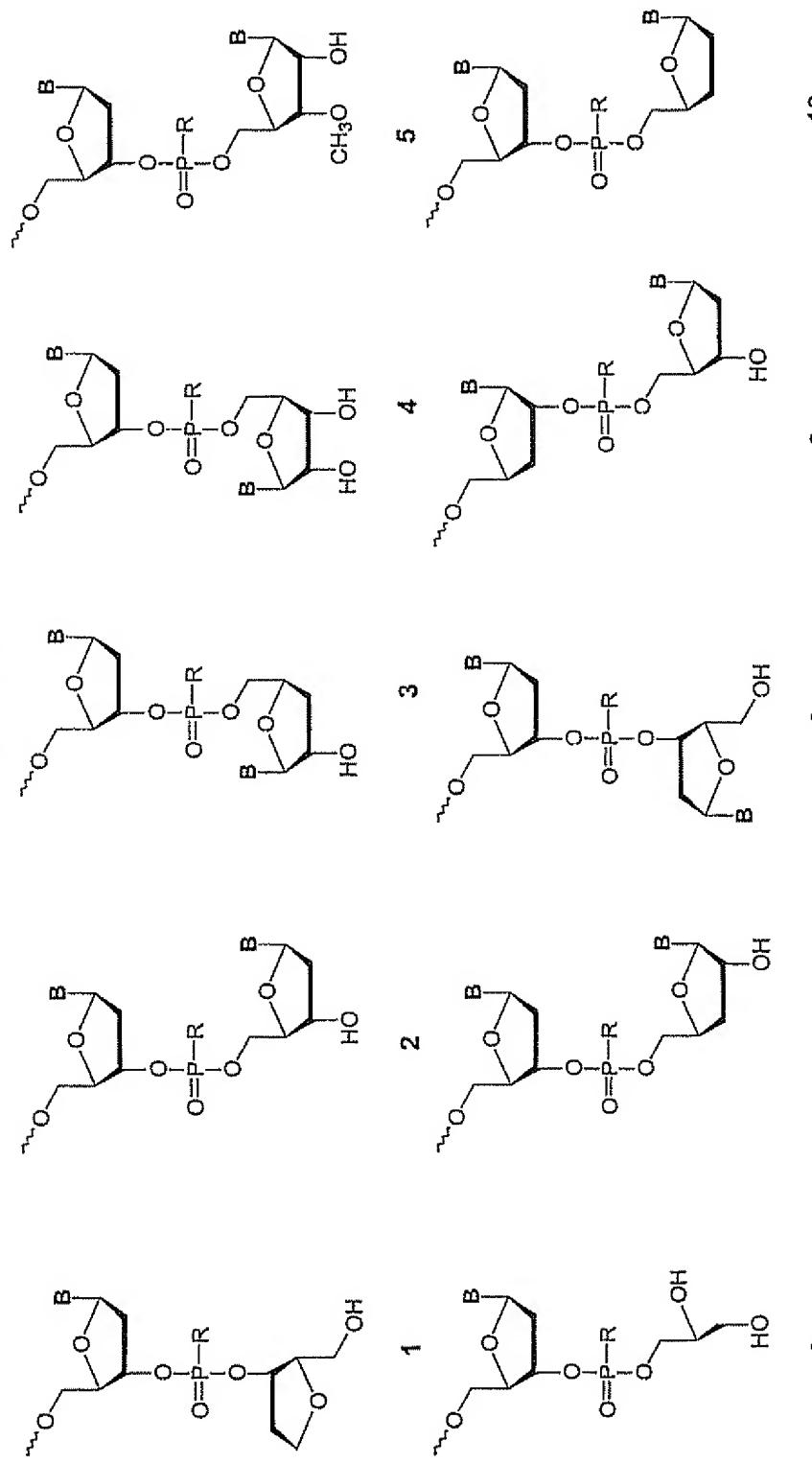


Figure 9

R = O, S, N, alkyl, substituted alkyl, O-alkyl, S-alkyl, alkaryl, or aralkyl
 B = Independently any nucleotide base, either naturally occurring or chemically modified, or optionally H (abasic).

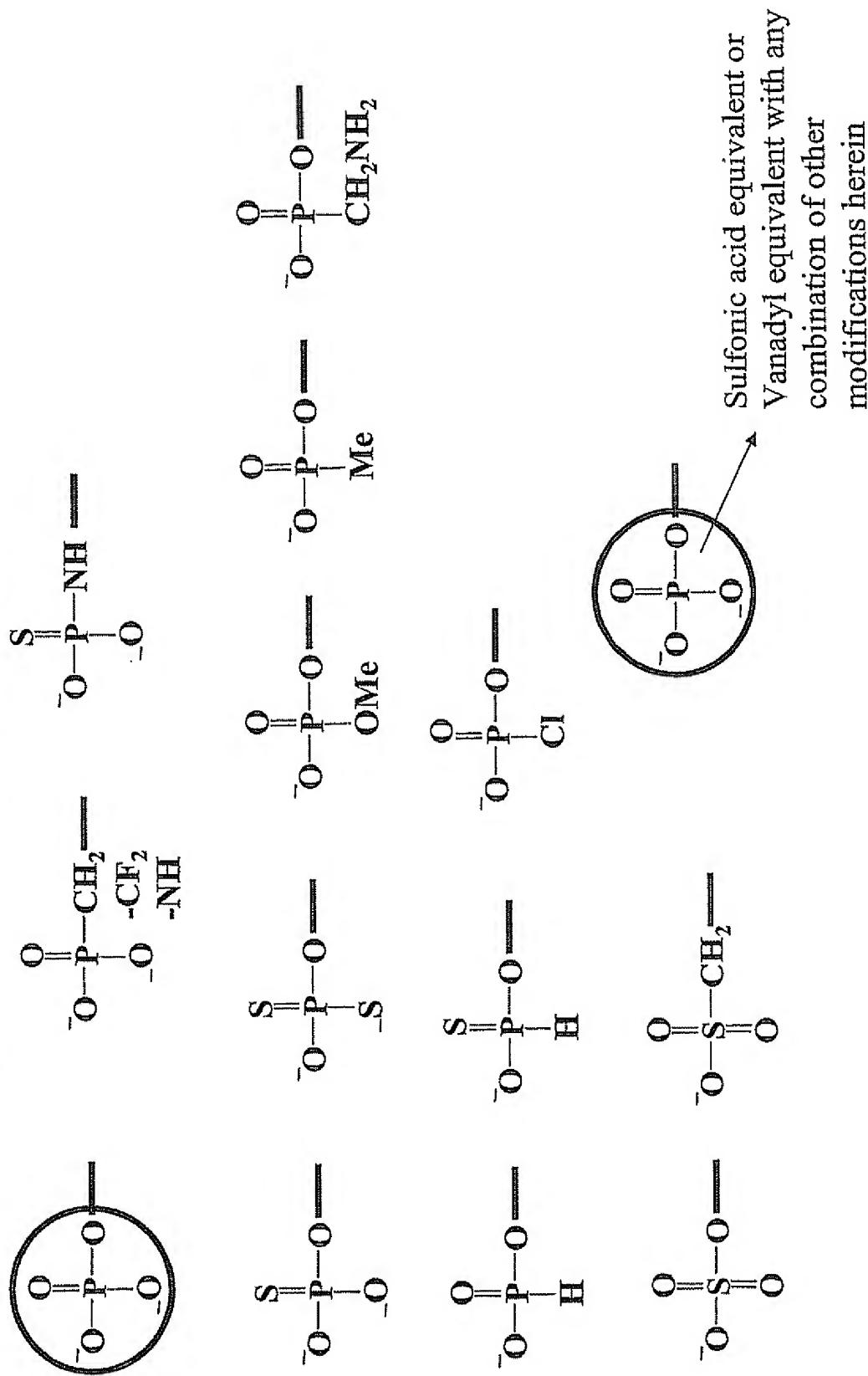
Figure 10: 5'-phosphate modifications

Figure 11

